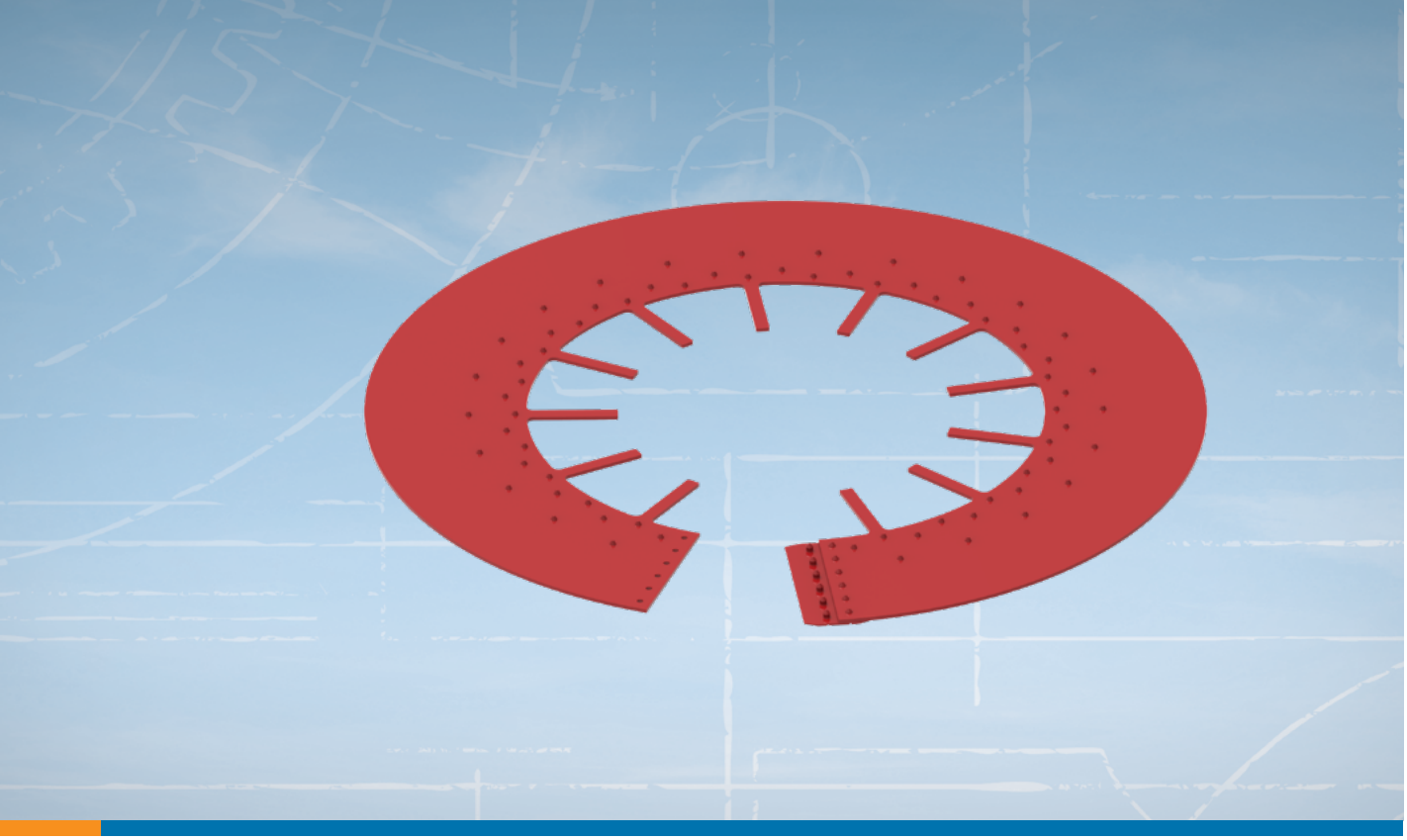


HIGH VOLTAGE BOOSTER SHED (HVBS)

WILDLIFE AND ASSET PROTECTION PRODUCTS

KEY FEATURES

- Works on all voltage classes
- Designed to prevent icing and heavy wetting induced flashovers
- Custom design
- REACH and RoHS Compliant

TE Connectivity's (TE) Raychem high voltage booster shed (HVBS) protects against flashovers caused by heavy insulator wetting and ice build up.

Heavy wetting flashover may occur during live-line washing or torrential rain. A large volume of polluted water flowing down one side of an insulator can bridge much of the leakage distance. It occurs predominantly on large bushings and post insulators where the sheds are closely spaced and are all the same diameter.

Icing flashover occurs when there is heavy snow or ice build up on the insulator skirts. When the temperature starts to rise above freezing, the melting droplets start a stream of water that can induce a flashover.

The booster shed breaks up long cascades of lightly contaminated water. HVBS cools, compresses and extinguishes discharges which run between it and the porcelain insulator. It also acts as an arc-chute or expulsion tube to eject heavy current arcs from its underside.

Superior high-voltage outdoor materials are used in the Booster Shed design. The rugged, non-tracking, UV-resistant, high temperature polymer ensures long-term performance even in the most extreme environmental conditions.

Customers can count on consistent, high quality products, driven by TE's proven innovation and backed by our extraordinary customer support.

High Voltage Booster Shed HVBS



TE's wildlife and asset protection products and systems of tubes, tapes, sheets, pre-formed covers and barriers provide a proven, cost-effective and easy-to-install solution to bird, animal and weather related outages.

PRODUCT PERFORMANCE		
Physical		
Key Material Properties	**Specifications**	**Results**
Tensile Strength	ISO 37	17MPa (2450 psi)
Ultimate Elongation	ISO 37	25% min
Low Temperature Flexibility 4hrs at -40°C	ASTM D2671	No Cracking
Accelerated Ageing 168 hrs at 120°C Tensile Strength	ASTM D638	17MPa (2450 psi)
Accelerated Ageing 168 hrs at 120°C Ultimate Elongation	ASTM D638	25% min.
Electrical		
Dielectric Strength (2.5mm thick-ness)	ASTM D149	>150 kV/cm (380 V/mil)
Volume Resistivity	ASTM D257	1 x 10^{13} Ohm cm min.
Tracking and Erosion Resistance	ASTM D2303	No tracking, erosion to top surface or flame. Failure after: 1 hr. at 2.5 kV 1 hr. at 2.75 kV 1 hr. at 3.0 kV 20 min at 3.25 kV

Note: The above information refers to the backing material only

Selection			
Description	**Suitable Insulator Core mm (Inches)**	**Medium Outside Insulator Skirt mm (Inches)**	**Booster Shed Dia. Fully Installed mm (Inches)**
HVBS-770/310-01-M-BP	227 - 257 (8.9 - 10.1)	304 (12.0)	713 (28.1)
HVBS-740/280-01-M-BP	199 - 229 (7.8 - 9.0)	276 (10.9)	685 (27.0)
HVBS-710/250-01-M-BP	175 - 201 (6.9 - 7.9)	249 (9.8)	657 (25.9)
HVBS-684/225-01-M-BP	159 - 178 (6.2 - 7.0)	235 (9.3)	634 (25.0)
HVBS-665/205-01-M-BP	140 - 160 (5.5 - 6.3)	216 (8.5)	616 (24.3)
HVBS-615/155-01-M-BP	94 - 114 (3.7 - 4.5)	161 (6.3)	569 (22.4)
Alternate sizes available on request.			

TECHNICAL REPORT	
UVR-8107	High Voltage Booster Shed (HVBS) Product Test Report
EDR-5311	High Voltage Booster Shed (HVBS) Material Test Report

INSTALLATION INSTRUCTIONS	
PII 56080	Installation Instructions for High Voltage Booster Shed

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